

**What is claimed is:**

1. A photo image detector comprising:  
a light source with a predetermined light quantity and for radiating light rays to an object;  
a photo image sensor which detects light rays reflected from the object and outputs a photo signal;  
an electric shutter which adjusts an exposing time interval according to the photo signal; and  
an image processor which receives the photo signal and outputting a photo image signal, the image processor including a luminous intensity controller for controlling a luminous intensity of the light rays which are radiated from the light source to the object according to the photo image signal.
2. The photo image detector of claim 1, further comprising an A/D converter which converts the photo signal in a digital form.
3. The photo image detector of claim 1, further comprising a system controller to drive the photo image detector.
4. The photo image detector of claim 1, wherein the photo signal is a form of a photocurrent or a photovoltage.
5. The photo image detector of claim 1, wherein the luminous intensity controller receives at least one of signals including a pulse width modulation, a pulse

duration modulation, a photocurrent and a photovoltage and outputs the received at least one signal as a luminous intensity control signal.

6. The photo image detector of claim 1, wherein the luminous intensity controller further controls the electric shutter to adjust the exposing time interval.

7. A photo image detector comprising:

a light source with a predetermined light quantity and for radiating light rays to an object;

a photo image sensor which detects light rays reflected from the object and outputs a photo signal;

an electric shutter which adjusts an exposing time interval according to the photo signal;

an image processor which receives the photo signal and outputting a photo image signal; and

a system controller including a luminous intensity controller for controlling the light rays which are radiated from the light source to the object according to the photo image signal.

8. The photo image detector of claim 1, further comprising an A/D converter which converts the photo signal in a digital form.

9. The photo image detector of claim 1, wherein the photo signal is a form of a photocurrent or a photovoltage.

10. The photo image detector of claim 1, wherein the luminous intensity controller receives at least one of signals including a pulse width modulation, a pulse duration modulation, a photocurrent and a photovoltage and outputs the received at least one signal as a luminous intensity control signal.

11. The photo image detector of claim 1, wherein the luminous intensity controller further controls the electric shutter to adjust the exposing time interval.

12. A method of controlling a luminous intensity for a photo image detector comprising a light source with a predetermined light quantity and for radiating light rays to an object, a photo image sensor for detecting light rays reflected from the object and outputting a photo signal, an electric shutter for adjusting an exposing time interval according to the photo signal, and an image processor which receives the photo signal and outputting a photo image signal, the method comprising:

the image processor producing a luminous intensity control signal; and

controlling directly a luminous intensity of the light source by the luminous intensity control signal .

13. The method of claim 12, wherein the image processor outputs at least one of signals of a pulse width modulation PWM and a pulse duration modulation PDM as the luminous intensity control signal.

14. The method of claim 12, wherein the image processor produce the luminous intensity control signal by employing a current or a voltage.

15 The method of claim 12, further comprising producing an exposing time interval control signal by the photo imageprocessor to directly control the electric shutter.

16. The method of claim 15, wherein the exposing time interval time control signal is outputted by using at least one of a pulse width modulation PWM, a pulse duration modulation PDM, a photocurrent and a photovoltage.

17. A method of controlling a luminous intensity for a photo image detector comprising a light source with a predetermined light quantity and for radiating light rays to an object, a photo image sensor for detecting light rays reflected from the object and outputting a photo signal, an electric shutter for adjusting an exposing time interval according to the photo signal, an image processor which receives the photo signal and outputting a photo image signal, and a system controller to drive the photo image detector, the method comprising:

the system controller producing a luminous intensity control signal; and

controlling directly a luminous intensity of the light source by the luminous intensity control signal .

18. The method of claim 17, further comprising producing an exposing time interval control signal by the system controller to directly control the electric shutter.

19. The method of claim 17, wherein the luminous intensity control signal is outputted by using at least one of a pulse width modulation PWM, a pulse duration modulation PDM, a photocurrent and a photovoltage.

20. The method of claim 18, wherein the exposing time interval control signal is outputted by using at least one of a pulse width modulation PWM, a pulse duration modulation PDM, a photocurrent and a photovoltage.

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